

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10711

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C08F10/00 C08F4/646

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 700 886 A (BACHMANN BERND ET AL) 23 December 1997 (1997-12-23) column 10, line 19 - line 22; claims; examples 2,3	1-10, 18-28
X	US 5 714 427 A (DOLLE VOLKER ET AL) 3 February 1998 (1998-02-03) column 8, line 11 - line 15; claims; examples 2,3	1-3,5,9, 10,18-27
X	EP 0 870 779 A (FINA TECHNOLOGY) 14 October 1998 (1998-10-14)  claim 8; examples	1-5, 18-23, 25-28
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

24 February 2004

Date of mailing of the international search report

03/03/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/60032 A (UNIVATION TECH LLC) 25 November 1999 (1999-11-25)  page 6, line 22 - line 33 page 11, line 4 - line 26; claims; examples	1-5, 12, 13, 16-23, 25-28
A	EP 0 619 325 A (FINA RESEARCH) 12 October 1994 (1994-10-12) cited in the application claims; examples	1-28
A	WO 00/18814 A (FINA RESEARCH ; DEBRAS GUY (BE); MICHEL JACQUES (BE); RAZAVI ABBAS) 6 April 2000 (2000-04-06) the whole document	1-28
A	LIU J ET AL: "BIMODAL POLYETHYLENES OBTAINED WITH A DUAL-SITE METALLOCENE CATALYST SYSTEM. EFFECT OF TRIMETHYLALUMINIUM ADDITION" MACROMOLECULAR: RAPID COMMUNICATIONS, WILEY VCH, WEINHEIM, DE, vol. 22, no. 12, 30 August 2001 (2001-08-30), pages 952-956, XP001077170 ISSN: 1022-1336 page 952 - page 956	1-27
P,X	WO 02/090398 A (BOREALIS TECH OY ; RYTTER ERLING (NO); BLOM RICHARD (NO); FOLLESTAD) 14 November 2002 (2002-11-14) claims; example 6	1-10, 21-27

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10711

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5700886	A	23-12-1997	DE 4333128 A1	30-03-1995
			AT 210158 T	15-12-2001
			CA 2133181 A1	30-03-1995
			DE 59409990 D1	17-01-2002
			EP 0645401 A1	29-03-1995
			ES 2169057 T3	01-07-2002
			FI 944480 A	30-03-1995
			JP 7179512 A	18-07-1995
			US 5696045 A	09-12-1997
			US 6150481 A	21-11-2000
US 5714427	A	03-02-1998	US 5350817 A	27-09-1994
			AT 136040 T	15-04-1996
			AT 199911 T	15-04-2001
			AU 656968 B2	23-02-1995
			AU 1713392 A	03-12-1992
			CA 2069602 A1	28-11-1992
			DE 59205811 D1	02-05-1996
			DE 59209897 D1	26-04-2001
			EP 0516018 A2	02-12-1992
			EP 0702030 A1	20-03-1996
			ES 2087339 T3	16-07-1996
			ES 2155492 T3	16-05-2001
			JP 3404493 B2	06-05-2003
			JP 5140227 A	08-06-1993
			KR 216331 B1	16-08-1999
			RU 2101296 C1	10-01-1998
EP 0870779	A	14-10-1998	US 6143683 A	07-11-2000
			EP 0870779 A1	14-10-1998
			JP 10338703 A	22-12-1998
			US 6362125 B1	26-03-2002
			US 6518377 B1	11-02-2003
WO 9960032	A	25-11-1999	US 6207606 B1	27-03-2001
			AU 743509 B2	24-01-2002
			AU 3983599 A	06-12-1999
			BR 9910482 A	09-01-2001
			CA 2329438 A1	25-11-1999
			EP 1084153 A1	21-03-2001
			JP 2002515521 T	28-05-2002
			WO 9960032 A1	25-11-1999
			US 2002010077 A1	24-01-2002
EP 0619325	A	12-10-1994	US 5719241 A	17-02-1998
			EP 0619325 A1	12-10-1994
			AT 204884 T	15-09-2001
			CA 2120813 A1	08-10-1994
			DE 69330674 D1	04-10-2001
			DE 69330674 T2	04-07-2002
			DK 619325 T3	03-12-2001
			ES 2163404 T3	01-02-2002
			HU 67821 A2	29-05-1995
			JP 6322014 A	22-11-1994
			PT 619325 T	28-02-2002
			US 6541413 B1	01-04-2003
WO 0018814	A	06-04-2000	EP 0989140 A1	29-03-2000

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10711

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0018814 A		EP 0989141 A1	29-03-2000
		AU 6329399 A	17-04-2000
		AU 6329499 A	17-04-2000
		WO 0018813 A1	06-04-2000
		WO 0018814 A1	06-04-2000
		EP 1124868 A1	22-08-2001
		EP 1117709 A1	25-07-2001
		JP 2000103813 A	11-04-2000
		JP 2000191726 A	11-07-2000
		US 2002099140 A1	25-07-2002
		US 2002065368 A1	30-05-2002
		US 6346575 B1	12-02-2002
WO 02090398 A	14-11-2002	EP 1385890 A2	04-02-2004
		WO 02090398 A2	14-11-2002